

**ENERGY-EFFICIENT DUCT, HEAD CELL WITH DUCT AND METHODS****Abstract**

5       A duct for conveying influent to a head cell having multiple, vertically aligned trays has an inlet end and an outlet end. The inlet end can be connected to an influent channel positioned at a level above the head cell apparatus. The outlet end is positioned downstream of the inlet end and can be connected to the head cell. The outlet end has multiple, discrete nozzles that are spaced apart in a vertical direction and correspond  
10      in number to the multiple trays. Influent that enters the inlet end of the duct travels downwardly and exits the duct through orifices in the nozzles, entering each of the respective trays.